

F H V A REGION NO.	STATE	FED. AID PRGJ. NO.	SHEET NO.	TOTAL SHEETS
3	MD			

PROJECT DESCRIPTION

GENERAL

THIS PROJECT INVOLVES THE INSTALLATION OF A NEW PEDESTRIAN TRAFFIC SIGNAL WITH STREET LIGHTING AT THE THE INTERSECTION OF MD 547 (STRATHMORE AVE) AND KENILWORTH AVE. IN MONTGOMERY COUNTY. MD 547 IS ASSUMED TO RUN IN AN EAST--WEST DIRECTION

INTERSECTION OPERATION

THE INTERSECTION WILL OPERATE IN A NEMA TWO--PHASE, PUSHBUTTON ACTUATED MODE, WITH THE MD 547 APPROACHES OPERATING CONCURRENTLY.

A PUSHBUTTON ACTUATED PEDESTRIAN PHASE WILL BE PROVIDED ACROSS THE WEST LEG OF MD 547.

THE SIGNAL WILL NORMALLY OPERATE IN A FLASHING YELLOW MODE WITH THE PEDESTRIAN SIGNALS DARK. WHEN ACTUATED BY A CROSSING GUARD, THE SIGNAL INDICATIONS WILL CHANGE TO QUICK FLASH YELLOW TO SOLID YELLOW TO RED AND THE PEDESTRIAN SIGNALS WILL CHANGE TO WALK

CONTROLLER REQUIREMENTS

INSTALL A FULL--TRAFFIC--ACTUATED, EIGHT--PHASE CONTROLLER, INTERSECTION MONITOR WITH BATTERY BACK--UP FOR PHONE DROP, AND ASSOCIATED HARNESSSES HOUSED IN A POLE MOUNTED CABINET

SPECIAL NOTE

UPON COMPLETION OF THIS PROJECT, THE CONTRACTOR SHALL NOTIFY MR. ROBERT SNYDER OF THE SHA AT (410) 787--7635 TO ARRANGE FOR PHONE LINE INSTALLATION. THE CONTRACTOR IS TO PROVIDE MR. SNYDER WITH THE NEAREST STREET ADDRESS, ZIP CODE, AND PHONE NUMBER.

EQUIPMENT LIST "A"

A. EQUIPMENT TO BE SUPPLIED BY THE SHA

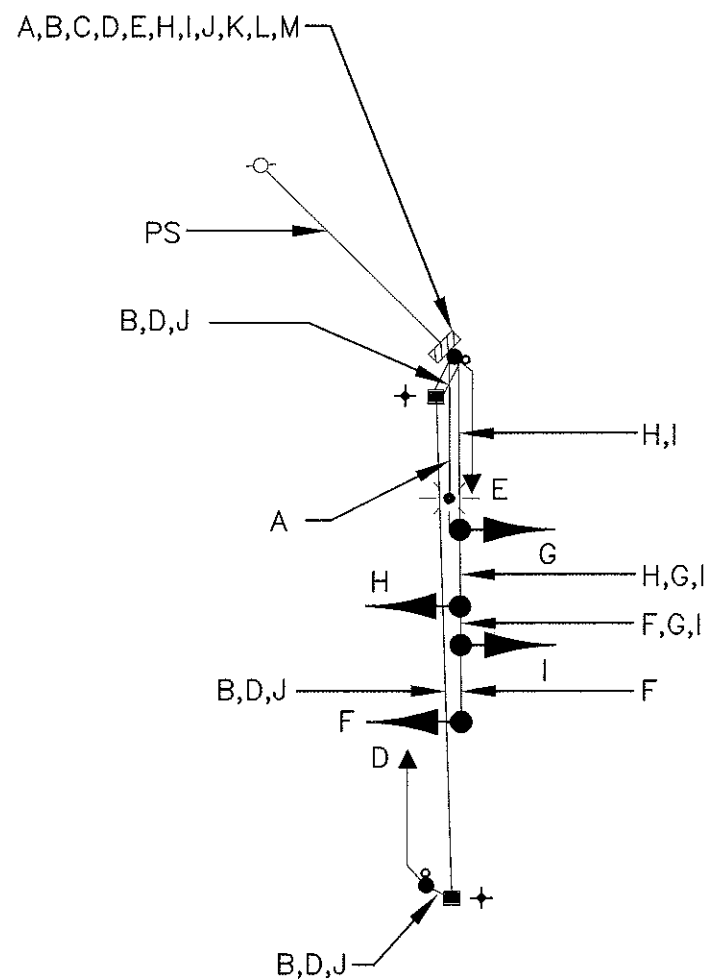
ITEM NO.	QUANTITY	DESCRIPTION
9024	4 EACH	12 IN./8 IN., ONE--WAY, THREE--SECTION (R,Y,G.) TRAFFIC SIGNAL HEAD WITH ADJUSTABLE BRACKET FOR MAST ARM MOUNTING AND TUNNEL VISORS.
9027	1 EACH	12 IN., ONE--WAY, TWO--SECTION (DONT WALK--WALK) PEDESTRIAN SIGNAL HEAD WITH CUT AWAY VISORS -- PEDESTAL MOUNT
9035	1 EACH	12 IN., ONE--WAY, TWO--SECTION (DONT WALK--WALK) PEDESTRIAN SIGNAL HEAD WITH CUT AWAY VISORS -- POLE MOUNT
9083	1 EACH	CABINET -- MONTGOMERY COUNTY WITH L.A.U. SIZE 5
9089	53 S.F.	SHEET ALUMINUM SIGNS TO CONSIST OF : -- 1 EACH D3--2 DUAL FACED SIGN "KENILWORTH AVENUE" (VARIABLE X 16 IN.) -- MAST ARM MOUNT -- 2 EACH S1--1A SIGN (84 IN. X 36 IN.) --MAST ARM MOUNT
9087	1 EACH	CONTROLLER -- ASC II WITH TELEMETRY MODULE
9092	1 EACH	INTERSECTION MONITOR WITH BATTERY BACK--UP
----	2 EACH	PUSHBUTTON IN KEY BOX AND R10--3C SIGN (SIGN TO READ "PUSH BUTTON TO CROSS STRATHMORE AVE"

EQUIPMENT LIST "B"

B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY THE CONTRACTOR

ITEM NO.	QUANTITY	DESCRIPTION
1001	1 EACH	MAINTENANCE OF TRAFFIC
2001	2 C.Y.	TEST PIT EXCAVATION
5001	300 L.F.	6 IN. YELLOW PERMANENT PREFORMED PAVEMENT MARKING TAPE
5004	60 L.F.	24 IN. WHITE PERMANENT PREFORMED PAVEMENT MARKING TAPE
8001	4 C.Y.	FURNISH AND INSTALL CONCRETE FOR SIGNAL FOUNDATION
8003	1 EACH	FURNISH AND INSTALL BREAKAWAY PEDESTAL POLE
8011	6 EACH	INSTALL SIGNAL HEAD
8019	1 EACH	INSTALL CONTROLLER AND CABINET -- POLE MOUNT
8027	20 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT -- TRENCHED
8028	65 L.F.	FURNISH AND INSTALL 3 IN. SCHEDULE 80 RIGID PVC CONDUIT -- SLOTTED
8033	2 EACH	FURNISH AND INSTALL ELECTRICAL HANDHOLE
8034	2 EACH	FURNISH AND INSTALL GROUND ROD-- 3/4 IN. DIAMETER X 10 FT. LENGTH
8042	100 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE-- 2 CONDUCTOR (NO. 14 A.W.G.)
8043	110 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE-- 3 CONDUCTOR (NO. 14 A.W.G.)
8044	35 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE-- 5 CONDUCTOR (NO. 14 A.W.G.)
8045	110 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE-- 7 CONDUCTOR (NO. 14 A.W.G.)
8046	50 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE-- 2 CONDUCTOR (NO. 12 A.W.G.)
8049	90 L.F.	FURNISH AND INSTALL STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
8050	45 L.F.	FURNISH AND INSTALL ELECTRICAL CABLE --1 CONDUCTOR (NO. 4 A.W.G.) THNN/THWN
8054	53 S.F.	INSTALL OVERHEAD SIGNS
8056	1 EACH	FURNISH AND INSTALL 250 WATT HPS LUMINAIRE WITH PHOTOCELL
8057	1 EACH	FURNISH AND INSTALL LIGHTING BRACKET FOR TRAFFIC SIGNAL STRUCTURE --1 EACH -- 12 FT. LENGTH
8064	1 EACH	USE EXISTING DISK AND AS--BUILT TRAFFIC CONTROL DEVICE
8070	1 EACH	CONTROL AND DISTRIBUTION EQUIPMENT
8074	2 EACH	PAINT STRUCTURE
8082	1 EACH	FURNISH AND INSTALL MAST ARM POLE AND 50 FT. MAST ARM
NEG.	15 L.F.	HOT MIX ASPHALT CURB
NEG.	2 EACH	INSTALL PUSHBUTTON IN KEY BOX AND SIGN

WIRING DIAGRAM



WIRING KEY

- A } 2--CONDUCTOR ELECTRICAL CABLE (NO. 12 A.W.G.) TRAY CABLE
B } 2--CONDUCTOR ELECTRICAL CABLE NO. 14 A.W.G.
D } 3--CONDUCTOR ELECTRICAL CABLE NO. 14 A.W.G.
F } 5--CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
H } 7--CONDUCTOR ELECTRICAL CABLE (NO. 14 A.W.G.)
J } STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
K } 1--CONDUCTOR ELECTRICAL CABLE (NO. 4 A.W.G.)
PS } PROPOSED OVERHEAD ELECTRIC SERVICE BY PEPCO
3/4 IN. X 10 FT. GROUND ROD

PHASE CHART

	1	2	3	4	5	6	
	(R)	(R)	(R)	(R)	DW	DW	
	(Y)	(Y)	(Y)	(Y)	WK	WK	
	(Y)	(Y)	(Y)	(Y)			
PHASE 2 + 6	FL/8"Y	FL/8"Y	FL/8"Y	FL/8"Y	DARK	DARK	
WARNING CHANGE	QFL/8"Y	QFL/8"Y	QFL/8"Y	QFL/8"Y	DARK	DARK	←
2 + 6 CHANGE	12"Y	12"Y	12"Y	12"Y	DARK	DARK	→
PEDESTRIAN PHASE	R	R	R	R	WK	WK	○
PED CLEAR	R	R	R	R	FL/DW	FL/DW	○
PED PHASE CHANGE	R	R	R	R	DW	DW	○
FLASHING OPERATION	FL/12"Y	FL/12"Y	FL/12"Y	FL/12"Y	DARK	DARK	←

TRAFFIC CONCEPTS, INC.

Brightview Business Center
8258 Veterans Highway
Suite 19B
Millersville, MD 21108
(410) 987-0427

REVISIONS	APPROVALS	REVISIONS
	ASSISTANT DIVISION CHIEF	
	ASST. DISTRICT ENGINEER, TRAFFIC	
	CHIEF, TRAFFIC ENGINEERING DESIGN DIV.	
	DIRECTOR, OFFICE OF TRAFFIC & SAFETY	



MARYLAND DOT -- STATE HIGHWAY ADMINISTRATION
Office of Traffic & Safety
TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET
MD 547 (STRATHMORE AVE) AND KENILWORTH AVE

DATE: 7-1-97	DRAWN BY: T. ZAYDEL	F.A.P. NO.	PLAN SHEET NO.:	SHEET NO.
SCALE: NONE	DESIGNED BY: T. ZAYDEL	S.H.A. NO. Aw237A55/Aw237B55		
APPROVED BY:	CHECKED BY: K. SCHMID	COUNTY MONTGOMERY	TS-3723GI	2 OF 2